IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A magnetic core having <u>a</u> linear B-H characteristic <u>with a permeability</u>, said permeability being constant within an applied field between -15 Oe and +15 Oe and at a frequency range up to about 1000 kHz which does not change with the level of magnetic fields applied and the frequency used.
- (currently amended) A magnetic core as recited by claim 1, consisting essentially of an amorphous iron-based alloy having saturation induction of at leastexceeding about about 10 kG (1 tesla).
- (currently amended) A magnetic core as recited by claim 2, wherein said alloy is in the form
 of slit into-ribbon and-wound in a toroidal shape to produce said core.
- 4. (cancelled)
- (currently amended) An inductor, comprising a magnetic core as recited by claim 43, having
 and a first copper winding on said core.
- 6. (cancelled)
- 7. (cancelled)
- 8. (currently amended) A current transformer, comprising the inductor of claim 65 and an additional copper wire winding on said core, the additional winding being adapted to carry, wherein the additional wire carries an electrical current to be monitored or measured with accuracy.

- 9. (currently amended) A current transformer comprising the inductor of claim 75 and an additional copper wire inserted into a hollow geometrically center section of said core, wherein the additional wire being adapted to carryies an electrical current to be monitored or measured with accuracy.
- 10. (currently amended) A current transformer, as recited by claim 8, wherein said first copper winding ishaving an output voltage adapted to be connected to for measurement by a voltmeter for accurate measurement of the electrical current in said additional wire winding.
- 11. (currently amended) A current transformer, as recited by claim 9, wherein said first copper winding ishaving an output voltage adapted to be connected to for measurement by a voltmeter for accurate measurement of the electrical current in said additional wire.
- 12. (new) A magnetic core as recited by claim 2, wherein said amorphous iron-based alloy has a composition consisting essentially of about 70-87 atom percent iron, of which up to about 20 atom percent of iron is optionally replaced by cobalt and up to about 3 atom percent of iron is optionally replaced by nickel, manganese, vanadium, titanium or molybdenum, and about 13-30 atom percent of elements selected from the group consisting of boron, silicon and carbon.